



08/26/03

FIG. 5A

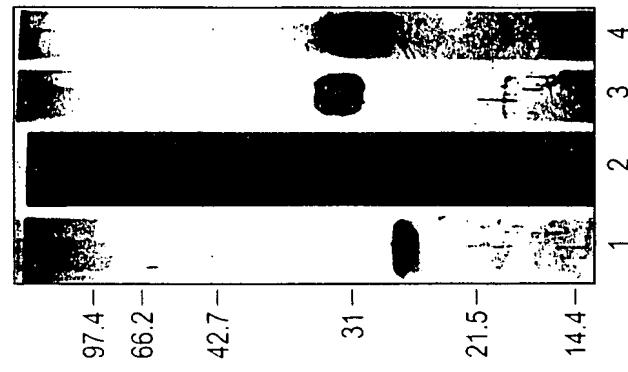


FIG. 5B

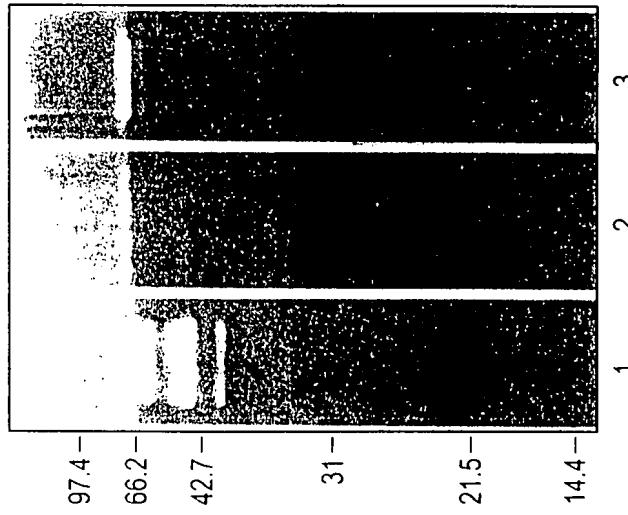
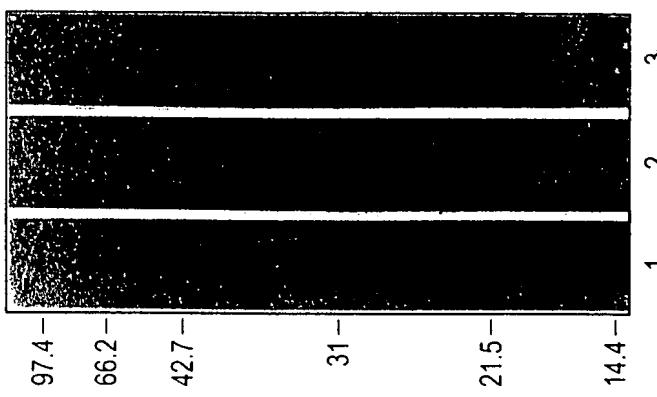


FIG. 5C



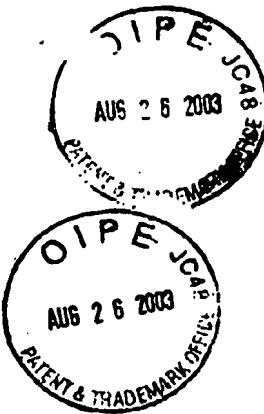


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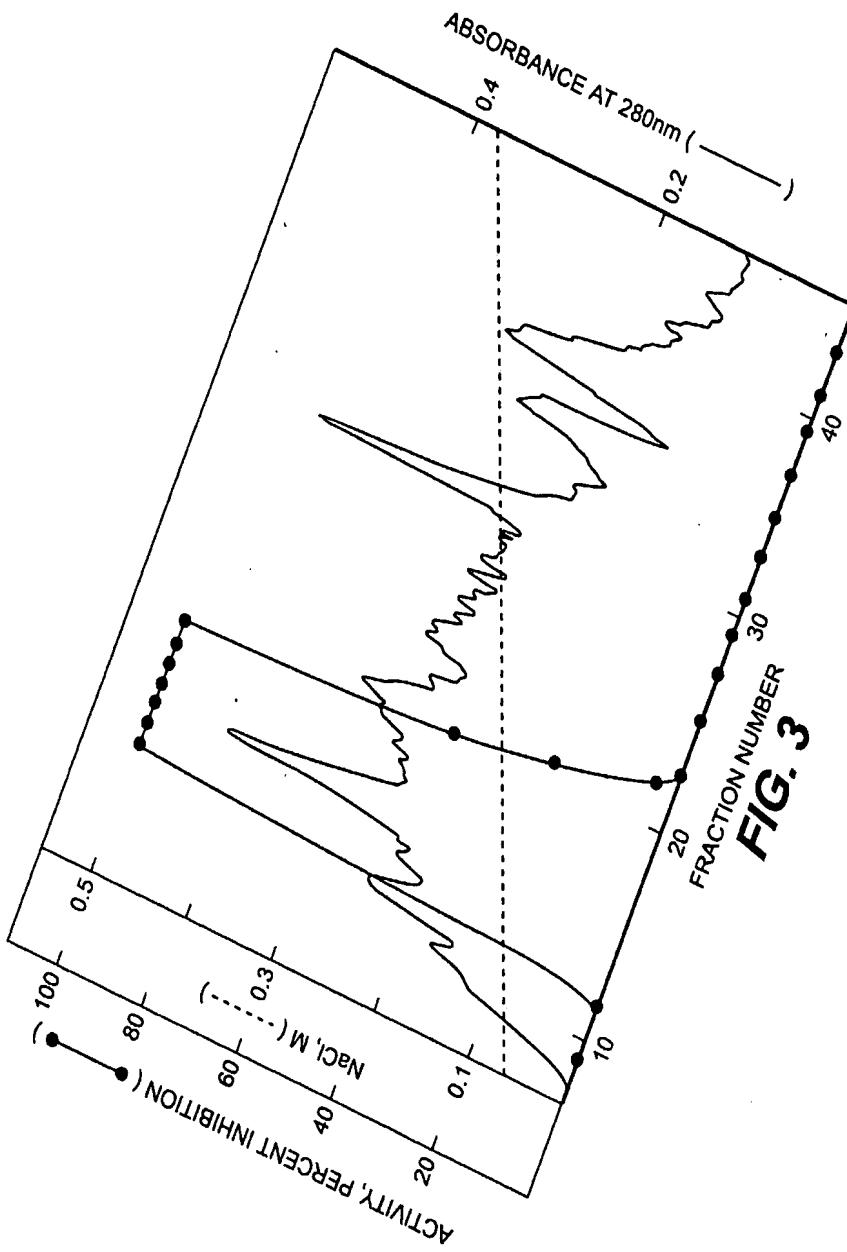
att ccg gct tct atg gag cac tcg gga cca ggt ccg cgg cgc gcg cac tcg ctc  
gct cgc cgc ccc cca gcc agc tct cgc ttc cgc gcc gac cgc gac ccc cgc  
ctc ctc gct gca ccc cgc gac cta gag cca aga aag ttt gtg tgg cga gtg agg  
gcc gga gag gag agc gcg ccc gac tgc cgt cca gac cag cgc ggc ccc ggc  
gga gag ggg agc gcc ccg agc cca ggc ggc ggc tag ccc gag tcc gcg acc  
-26 -20  
Met Gly Ala Ala Ala Arg Ser Leu Pro Leu Ala Phe  
ccc gcc cct ccg ccc gcc atg ggcc gcc gcc cgc agc ctg ctc gcg ttc  
-10 -1 1  
Cys Leu Leu Leu Leu Gly Thr Leu Leu Pro Arg Ala Asp Ala Cys Ser Cys Ser  
tgc ctc ctg ctg ggg acg ctg ctc ccc cgg gcc gac gcc tgc agc tgc tcc  
10 20  
Pro Val His Pro Gln Gln Ala Phe Cys Asn Ala Asp Ile Val Ile Arg Ala Lys  
ccg gtg cac ccg caa cag gcg ttt tgc aat gca gac ata gtg atc agg gcc aaa  
30 40  
Ala Val Asn Lys Lys Glu Val Asp Ser Gly Asn Asp Ile Tyr Gly Asn Pro Ile  
gca gtc aat aag aag gag gtg gac tct ggc aac gac atc tac ggc aac ccc atc  
50  
Lys Arg Ile Gln Tyr Glu Ile Lys Gln Ile Lys Met Phe Lys Gly Pro Asp Gln  
aag ccg att cag tat gag atc aag cag ata aag atg ttc aag gga cct gat cag  
60 70  
Asp Ile Glu Phe Ile Tyr Thr Ala Pro Ala Ala Val Cys Gly Val Ser Leu  
gac ata gag ttt atc tac aca gcc ccc gcc gct gcc gtg tgt ggg gtc tgc ctg  
80 90  
Asp Ile Gly Gly Lys Lys Glu Tyr Leu Ile Ala Gly Lys Ala Glu Gly Asn Gly  
gac att gga aag aag gag tat ctc att gca ggg aag gcc gag ggg aat ggc  
100 110  
Asn Met His Ile Thr Leu Cys Asp Phe Ile Val Pro Trp Asp Thr Leu Ser Ala  
aat atg cat atc acc ctc tgt gac ttc atc gtg ccc tgg gac acc ctg agt gcc  
120 130  
Thr Gln Lys Lys Ser Leu Asn His Arg Tyr Gln Met Gly Cys Glu Cys Lys Ile  
acc cag aag agc ctg aac cac agg tac cag atg ggc tgt gag tgc aag atc  
140  
Thr Arg Cys Pro Met Ile Pro Cys Tyr Ile Ser Ser Pro Asp Glu Cys Leu Trp  
act cga tgc ccc atg atc cca tgc tac atc tcc tct ccg gac gag tgc ctc tgg  
150 160  
Met Asp Trp Val Thr Glu Lys Asn Ile Asn Gly His Gln Ala Lys Phe Phe Ala  
atg gac tgg gtc acg gag aag aac atc aac gga cac cag gcc aag ttc ttc gcc  
170 180  
Cys Ile Lys Arg Ser Asp Gly Ser Cys Ala Trp Tyr Arg Gly Ala Ala Pro Pro  
tgc atc aag aga agc gac ggc tcc tgc gcc tgg tac cgc gga gca gca ccc ccc  
190 194  
Lys Gln Glu Phe Leu Asp Ile Glu Asp Pro  
aag cag gag ttt ctg gac atc gag gac ccg taa gca ggc cac cag gac tcc tgg  
ggc caa ttg aca gtg tcc aag agt tca gac tgg tcc agc tcc gac atc cct tcc  
tgg aca cag cat gaa taa a

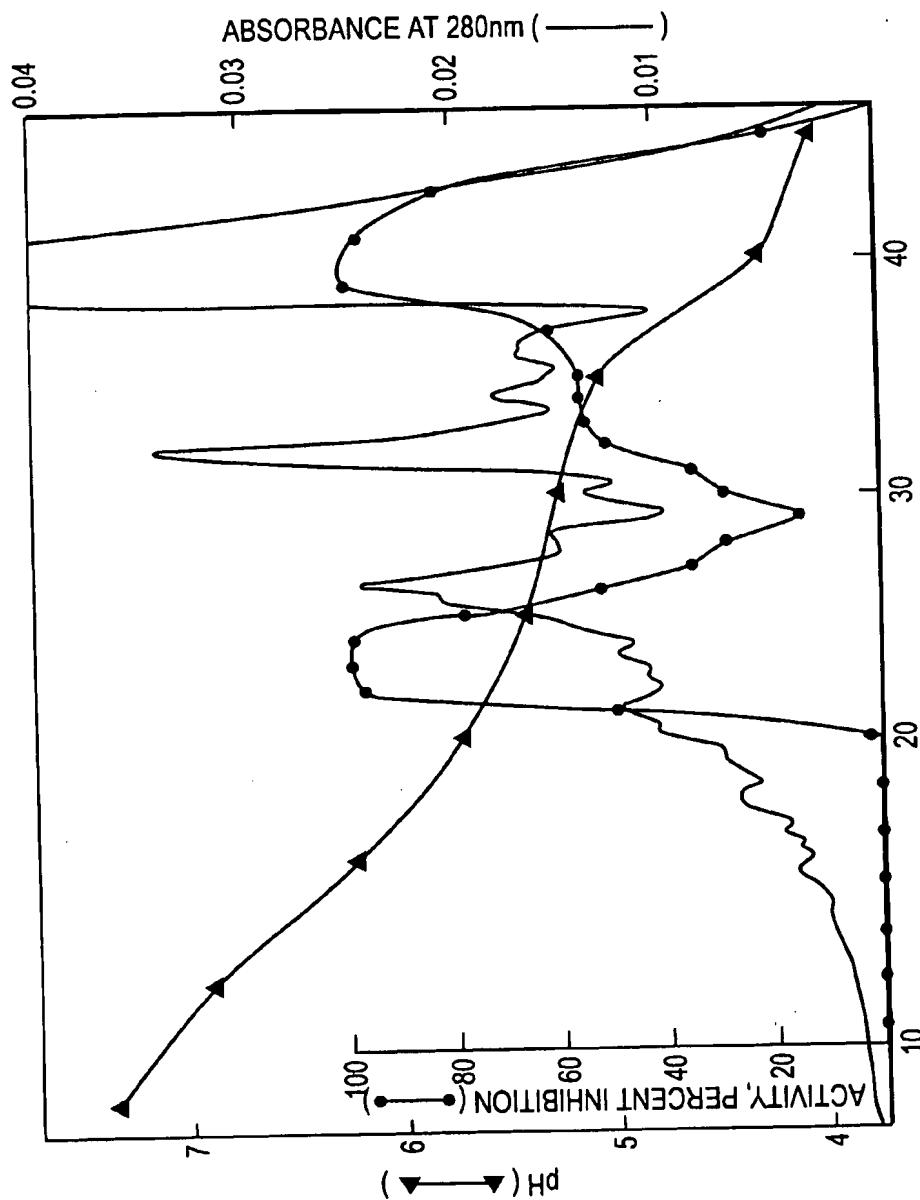
**FIG. 1**



att ccg gcc cgc cgt ccc cca ccc cgc cgc ccc gcc cg<sub>a</sub> att gc<sub>g</sub> ccc cgc  
 gcc cct ccc ctc gc<sub>g</sub> ccc ccc aga caa aga gga gag aaa gtt tgc gc<sub>g</sub> gcc gag  
 cg<sub>g</sub> ggc agg tga gga ggg tga gcc gc<sub>g</sub> cgg gag ggg ccc gcc tc<sub>g</sub> gcc ccc gct  
 cag ccc ccc gc<sub>g</sub> ccc cca gcc cgc cgc gag cag cgc ccc gac ccc cca  
 -26 Met Gly Ala Ala Ala Arg  
 gc<sub>g</sub> gc<sub>g</sub> ccc gcc ccc gc<sub>g</sub> cca gcc ccc cgg ccc gcc atg ggc gc<sub>g</sub> gc<sub>g</sub> gc<sub>g</sub> gc<sub>g</sub>  
 -20 -10  
 Thr Leu Arg Leu Ala Leu Gly Leu Leu Leu Ala Thr Leu Leu Arg Pro Ala  
 acc ctg cgg ctg gc<sub>g</sub> ctc ctg ctg ctg gc<sub>g</sub> acg ctg ctt cgc ccc gcc  
 -1 1 10  
 Asp Ala Cys Ser Cys Ser Pro Val His Pro Gln Gln ala Phe Cys Asn Ala Asp  
 gac gcc tgc agc tgc tcc ccc gtg cac ccc caa cag gc<sub>g</sub> ttt tgc aat gca gat  
 20 30  
 Val Val Ile Arg Ala Lys Ala Val Ser Glu Lys Glu Val Asp Ser Gly Asn Asp  
 gta gtg atc agg gcc aaa gc<sub>g</sub> gtc agt gag aag gaa gtg gac tct gg<sub>a</sub> aac gac  
 40 50  
 Ile Tyr Gly Asn Pro Ile Lys Arg Ile Gln Tyr Glu Ile Lys Gln Ile Lys Met  
 att tat gc<sub>g</sub> aac ccc atc acc aag agg atc cag tat gag atc aag cag ata aag atg  
 60 70  
 Phe Lys Gly Pro Glu Lys Asp Ile Glu Phe Ile Tyr Thr Ala Pro Ser Ser Ala  
 ttc aaa ggg ccc gag aag gat ata gag ttt atc tac acg gcc ccc tcc tc<sub>g</sub> gca  
 80  
 Val Cys Gly Val Ser Leu Asp Val Gly Gly Lys Lys Glu Tyr Leu Ile Ala Gly  
 gtg tgt ggg gtc tc<sub>g</sub> ctg gac gtt gga gga aag aag gaa tat ctc att gca gga  
 90 100  
 Lys Ala Glu Gly Asp Gly Lys Met His Ile Thr Leu Cys Asp Phe Ile Val Pro  
 aag gcc gag ggg gac gc<sub>g</sub> aag atg cac atc acc ctc tgt gac ttc atc gtg ccc  
 110 120  
 Trp Asp Thr Leu Ser Thr Thr Gln Lys Lys Ser Leu Asn His Arg Tyr Gln Met  
 tgg gac acc ctg agc acc acc cag aag aag agc ctg aac cac agg tac cag atg  
 130 140  
 Gly Cys Glu Cys Lys Ile Thr Arg Cys Pro Met Ile Pro Cys Tyr Ile Ser Ser  
 gc<sub>g</sub> tgc gag tgc aag atc acg ccc tgc atc ccc atc cc<sub>g</sub> tgc tac atc tcc tcc  
 150 160  
 Pro Asp Glu Cys Leu Trp Met Asp Trp Val Thr Glu Lys Asn Ile Asn Gly His  
 ccg gag tgc ctc tgg atg gac tgg gtc aca gag aag aac atc aac ggg cac  
 170  
 Gln Ala Lys Phe Phe Ala Cys Ile Lys Arg Ser Asp Gly Ser Cys Ala Trp Tyr  
 cag gc<sub>g</sub> aag ttc ttc gc<sub>g</sub> tgc atc aag aga agt gac gc<sub>g</sub> tcc tgt gc<sub>g</sub> tgg tac  
 180 190 194  
 Arg Gly Ala Ala Pro Pro Lys Gln Glu Phe Leu Asp Ile Glu Asp Pro  
 gc<sub>g</sub> gc<sub>g</sub> ccc ccc aag cag gag ttt ctc gac atc gag gac cca taa gca  
 ggc ctc cca cgc ccc tgt ggc caa ctg caa aaa aag cct cca agg gtt tc<sub>g</sub> act  
 ggt cca gct ctg aca tcc ctt cct gga aac agc atg aat aaa aca ctc atc ccc  
 gga att c

**FIG. 2**





**FIG. 4**

FIG. 5A

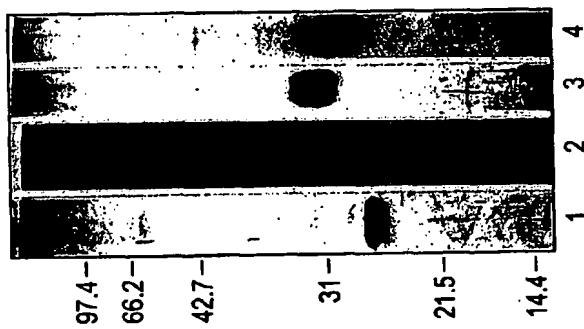


FIG. 5B

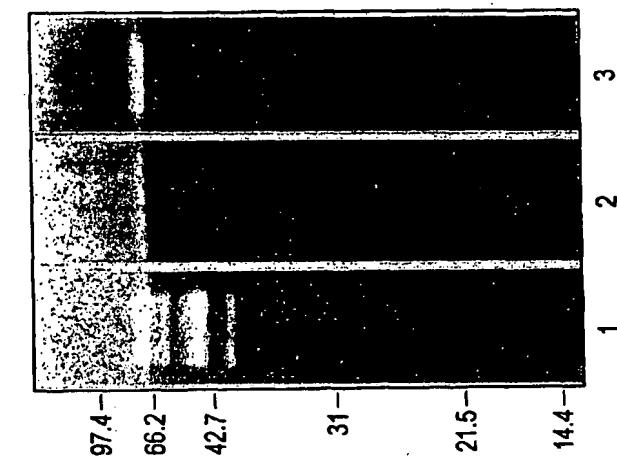
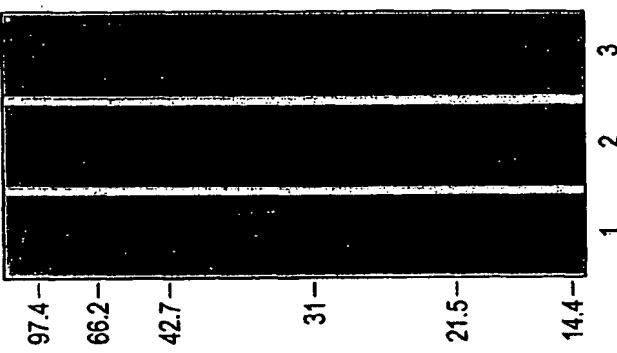
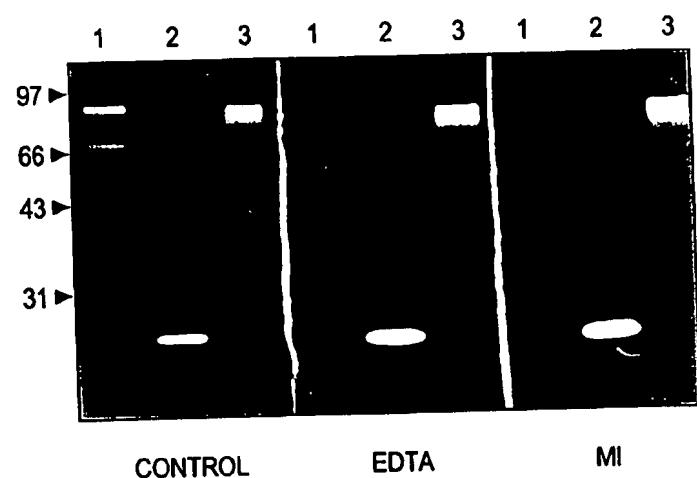


FIG. 5C



16379 U.S. P.  
08/26/03

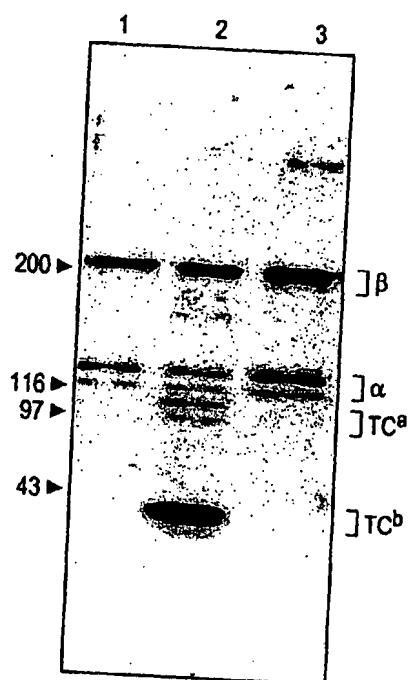
FIG. 6

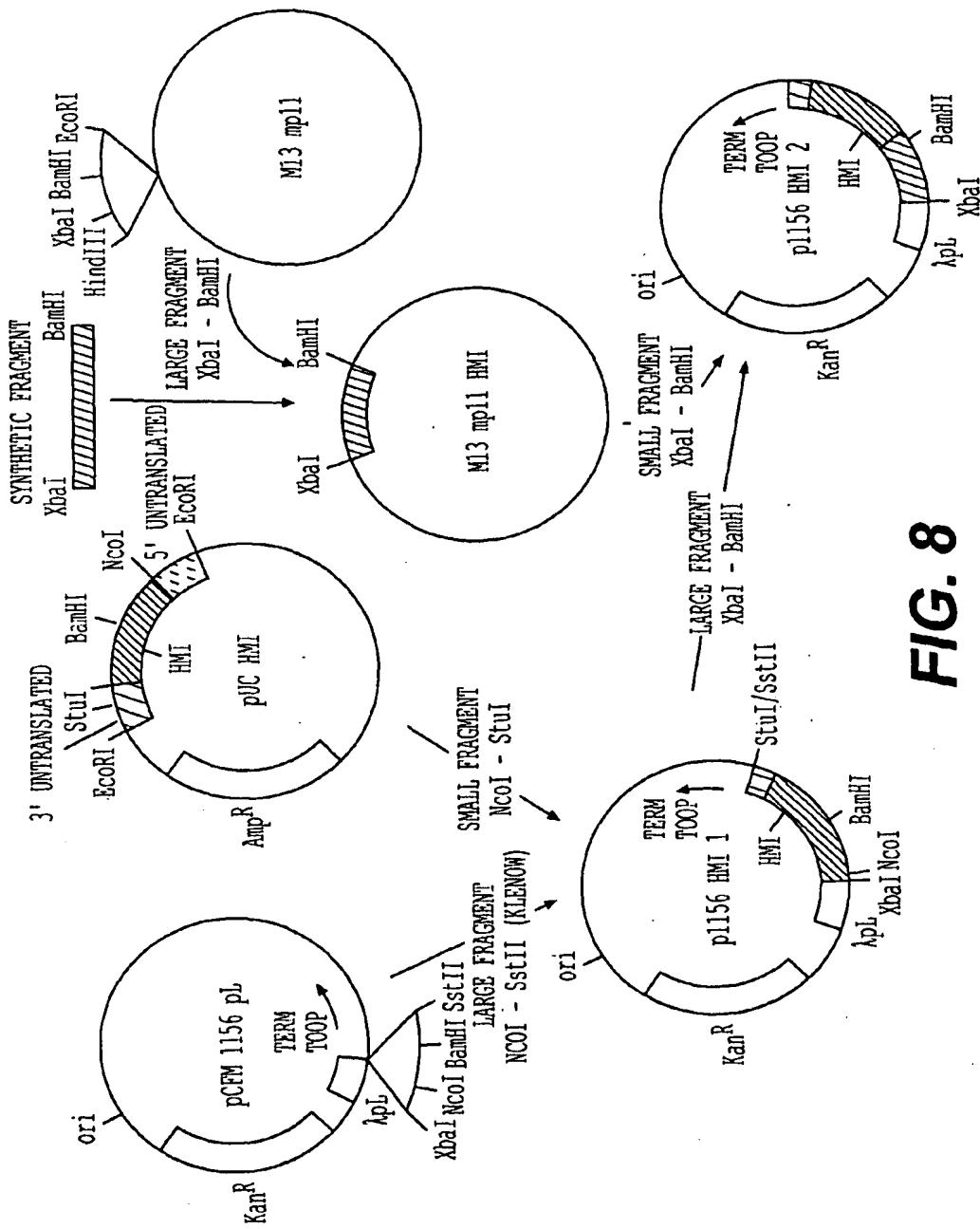




08/26/03

FIG. 7





**FIG. 8**

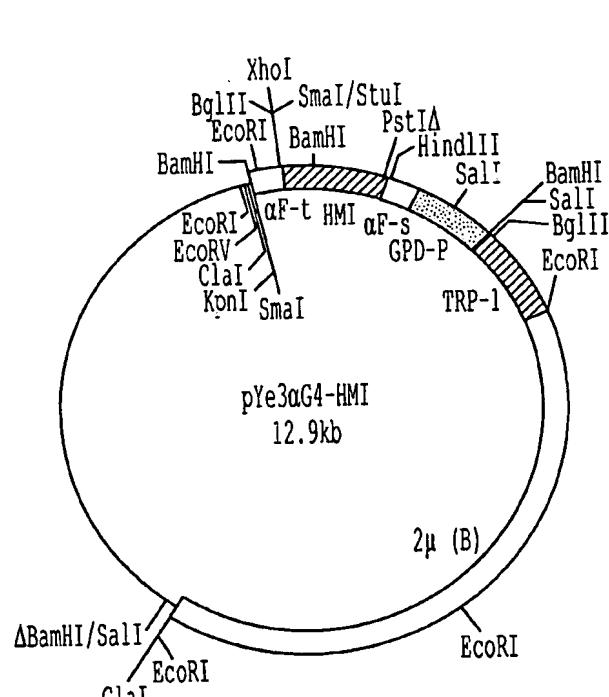
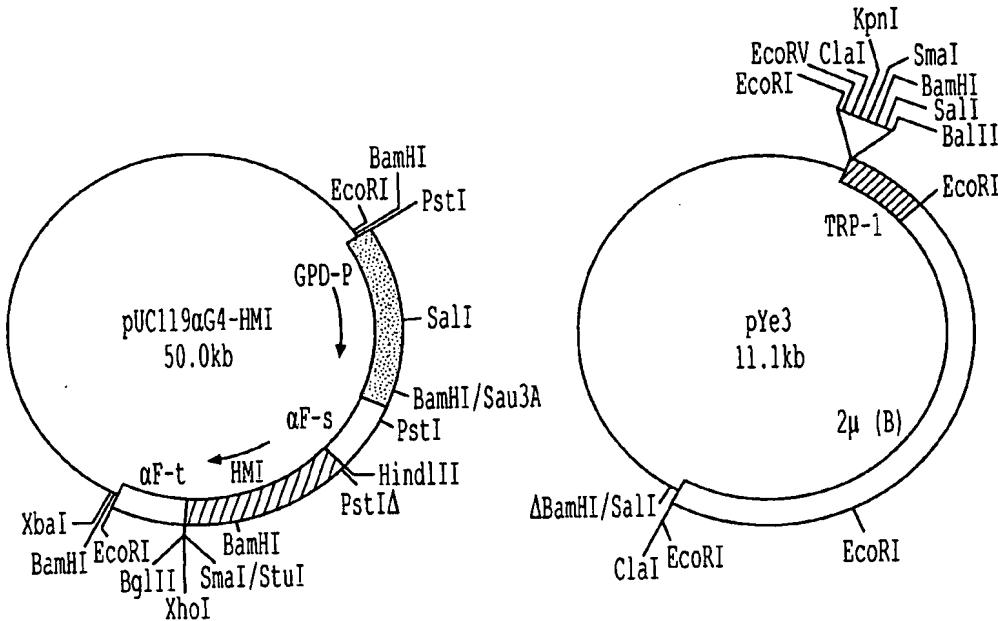
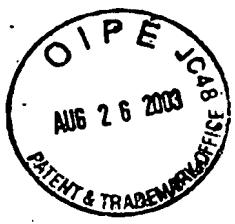


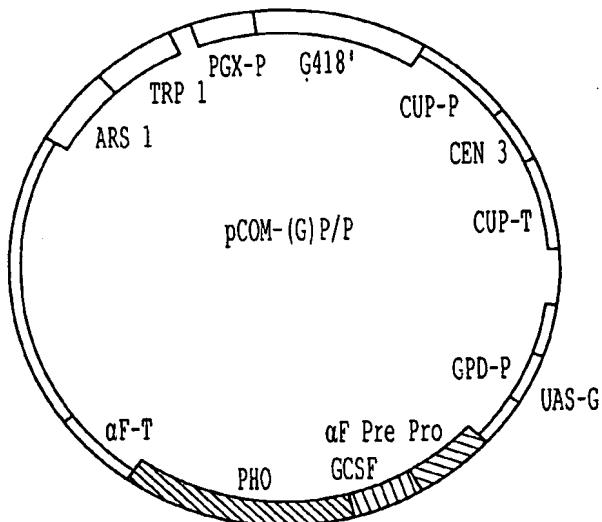
10            20            30            40            50            60  
CTAGAAAAAA CCAAGGAGGT AATAAATAAT GTGTTCTTGT TCTCCTGTAC ACCCTCAACA  
TTTTT GGTTCCCTCCA TTATTTATTA CACAAGAACCA AGAGGACATG TGGGAGTTGT

70            80            90            100          110          120  
AGCTTTTGAT AACGCTGATG TAGTTATCCG TGCAAAAGCT GTTTCTGAAA AAGAAGTTGA  
TCGAAAAACCA TTGCGACTAC ATCAATAGGC ACCTTTCGA CAAAGACTTT TTCTTCAACT

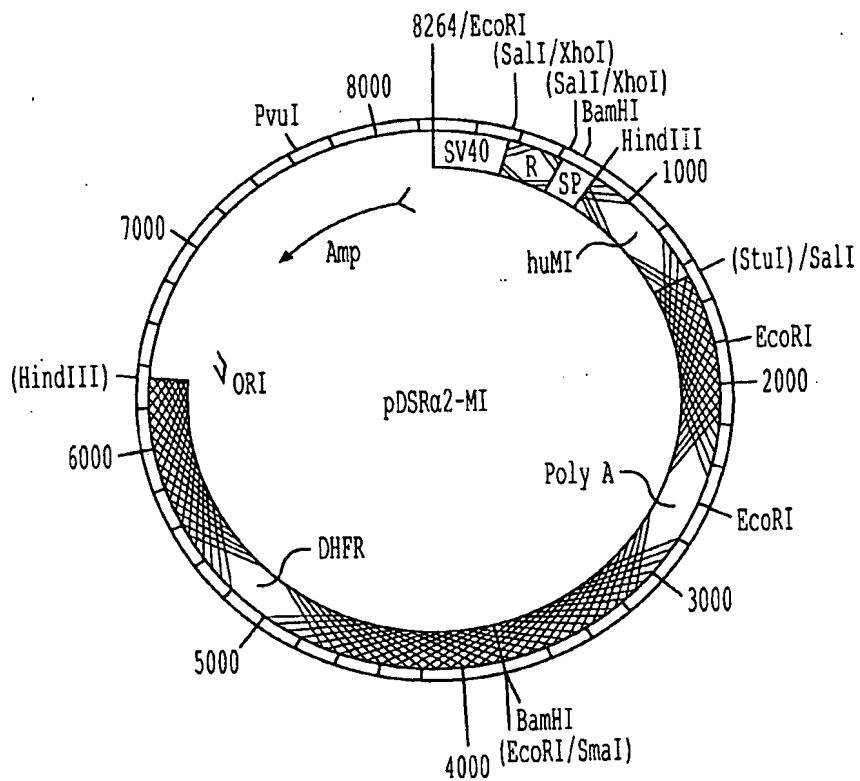
130          140          150          160  
TTCTGGTAAC GACATCTACCG GTAACCCGAT CAAAAG  
AAGACCATTG CTGTAGATGC CATTGGGCTA GTTTCCCTAG

## **FIG. 9**





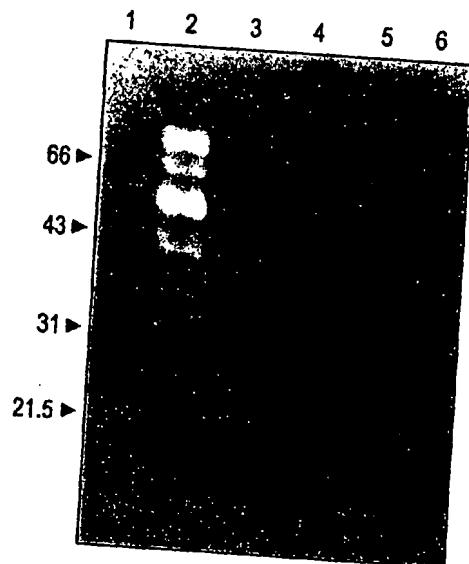
**FIG. 11**



**FIG. 12**



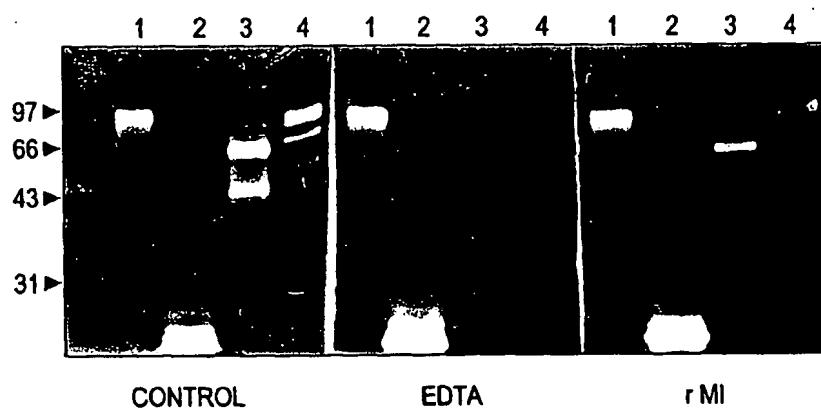
FIG. 13

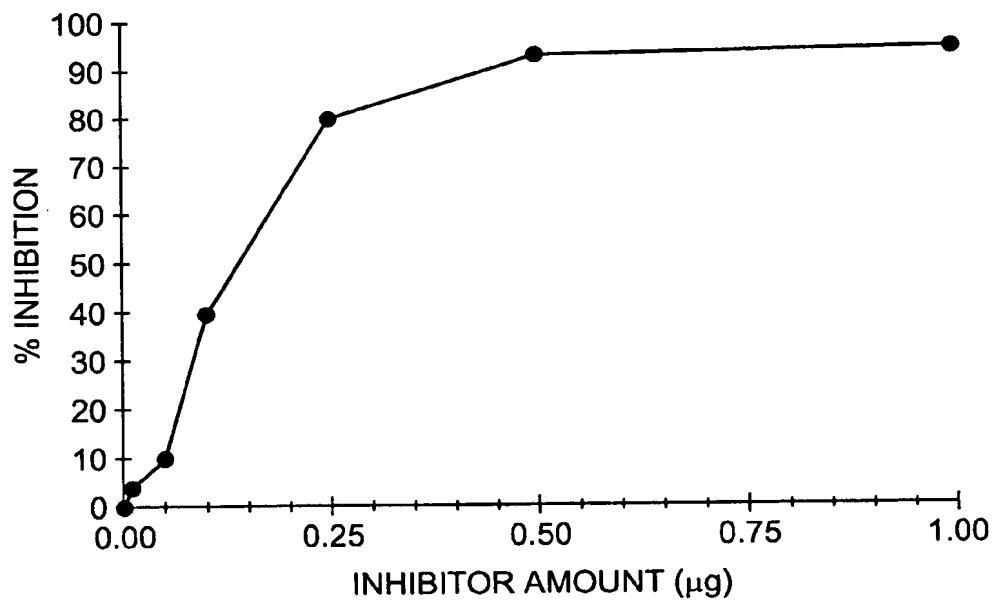


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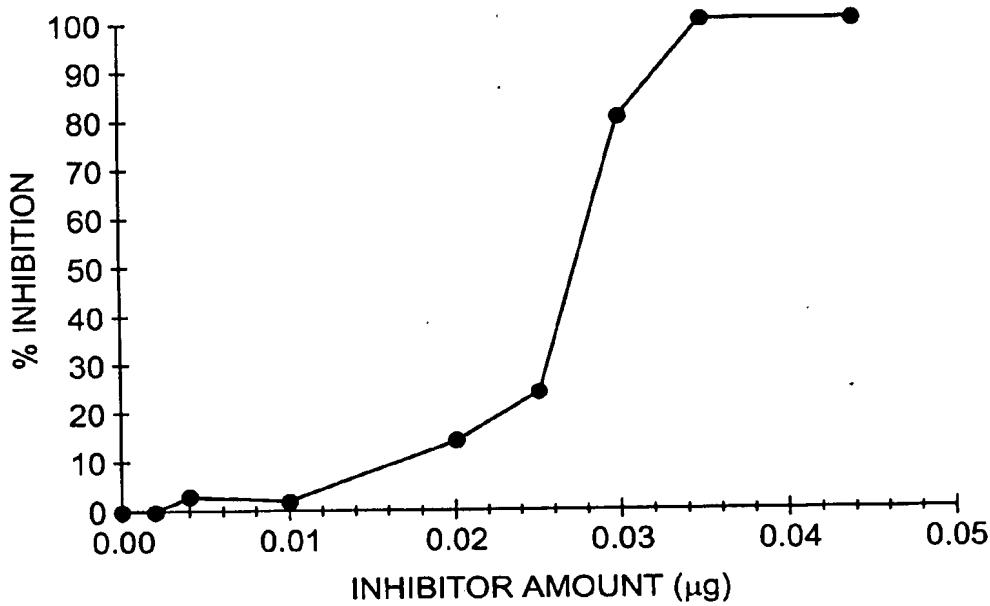
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FIG. 14



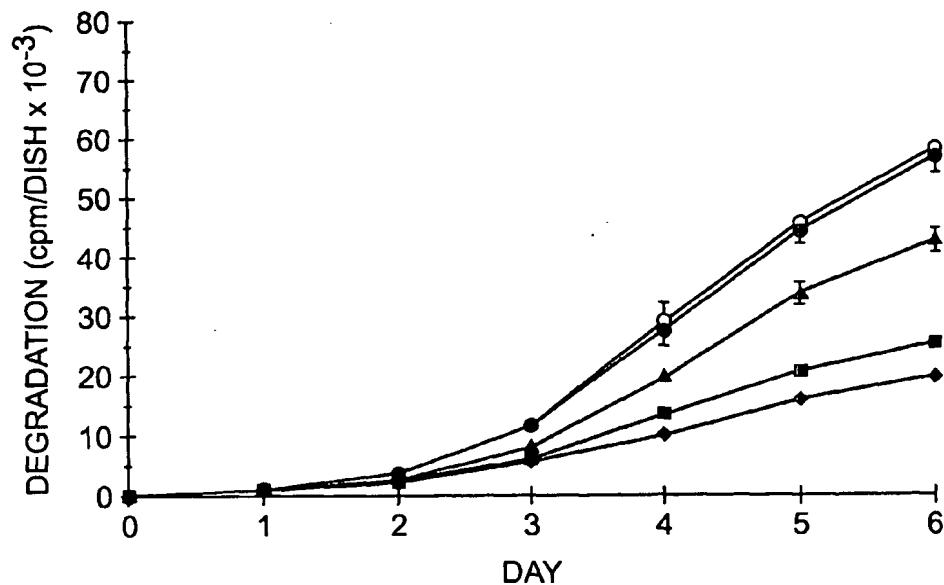


**FIG. 15A**

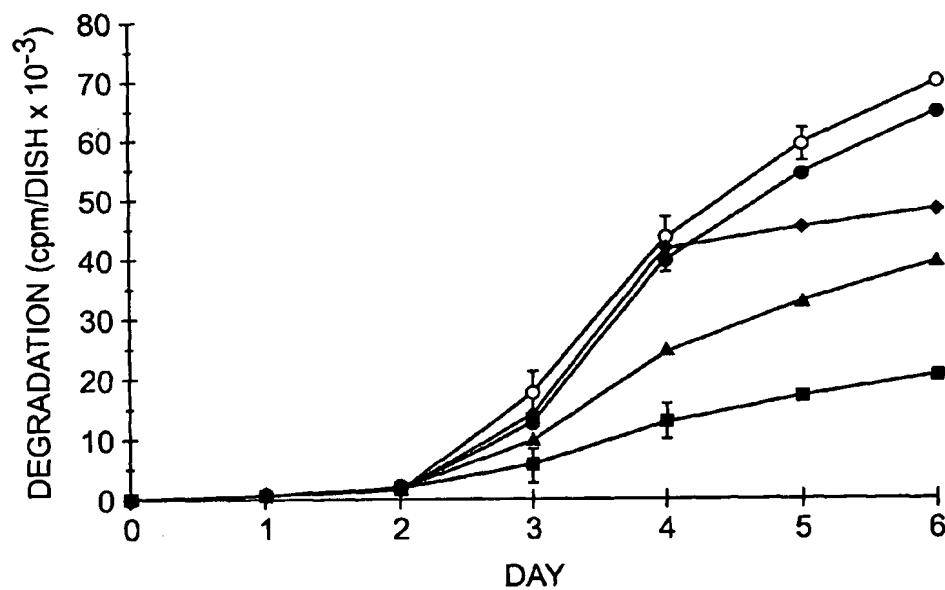


**FIG. 15B**

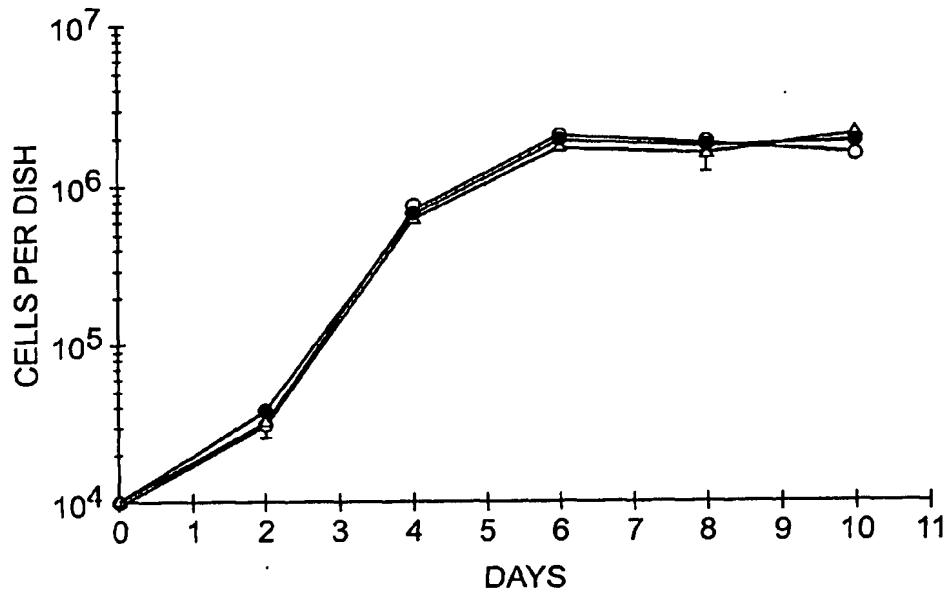
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U.S. PATENT & TRADEMARK OFFICE  
C 94 8



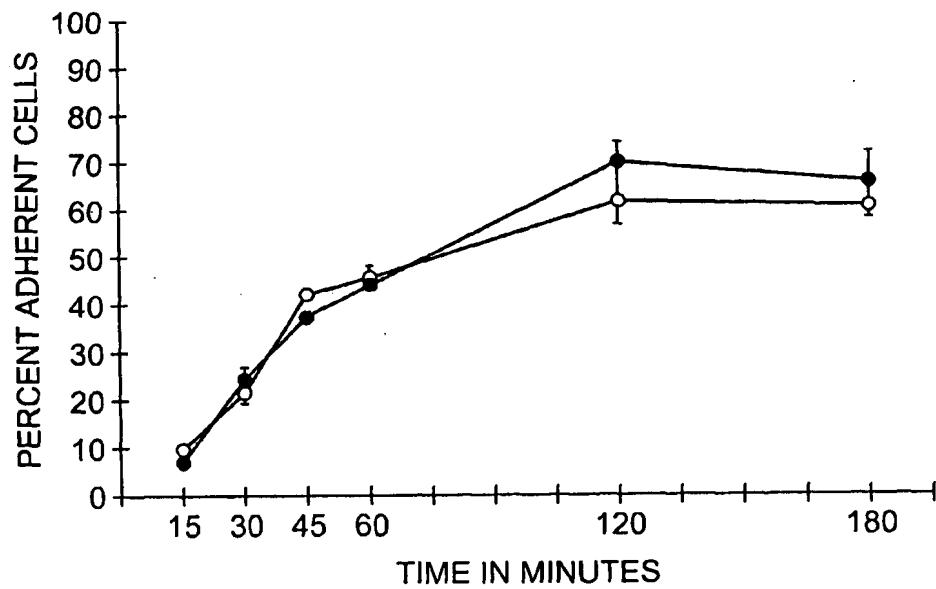
**FIG. 16**



**FIG. 17**



**FIG. 18A**



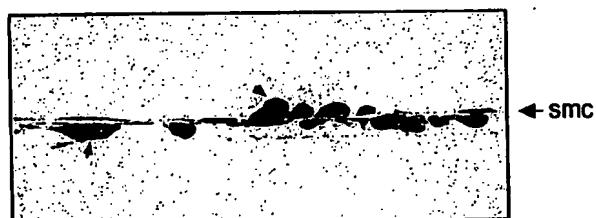
**FIG. 18B**

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**FIG. 19A**



**FIG. 19B**



**FIG. 19C**

